

Problem Set 5**Calculus 3****Due 10/24/03**

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. Find the center of mass of the tetrahedron with vertices $(0,0,0)$, $(a,0,0)$, $(0,b,0)$, and $(0,0,c)$.
2. Find the surface area of the portion of the paraboloid $z = x^2 + y^2$ below the plane $z = h$.
3. Stewart §15.6 #22
4. Find the volume of the solid from problem 3.